RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/573, 582_

Source: _IFWP_

Date Processed by STIC: _04/10/2006_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/573, 582_   CRF Edit Date: _04/10/2006_
Edited by: _DA_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

~~____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers~~

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:

_____
_____
_____

Revised 09/09/2003

IFWP

RAW SEQUENCE LISTING   DATE: 04/10/2006
PATENT APPLICATION: **US/10/573,582**   TIME: 15:25:39

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\04102006\J573582.raw**

```
    3 <110> APPLICANT: Bayer AG, BHC
    5 <120> TITLE OF INVENTION: New acylglycerol acyltransferase-like protein MGAT-X2 and
uses thereof
    7 <130> FILE REFERENCE: Le A 36 895
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/573,582
C-->  9 <141> CURRENT FILING DATE: 2006-03-27
    9 <160> NUMBER OF SEQ ID NOS: 5
   11 <170> SOFTWARE: PatentIn version 3.1
   13 <210> SEQ ID NO: 1
   14 <211> LENGTH: 1014
   15 <212> TYPE: DNA
   16 <213> ORGANISM: Homo sapiens
   18 <400> SEQUENCE: 1
   19 atggctttct ctcccgact gaatctccag gagggcctcc aaaccttctt tgttttgcaa      60
   20 tggatcccag tctatatatt tttaggagct attcccattc tccttatacc ctactttctg     120
   21 ttattcagta agttctggcc cttggctgtg ctctccttag cctggctcac ctatgattgg     180
   22 aacacccaca gtcaaggtgg caggcgttca gcttgggtac gaaactggac cctatggaag     240
   23 tatttccgaa attacttccc agtaaagctg gtgaagactc atgatctttc tcccaaacac     300
   24 aactacatca ttgccaatca ccccatggc attctctctt ttggtgtctt catcaacttt      360
   25 gccactgagg ccactggcat tgctcggatt ttcccatcca tcactccctt tgtagggacc     420
   26 ttagaaagga tattttggat cccaattgtg cgagaatatg tgatgtcaat gggtgtgtgc     480
   27 cctgtgagta gctcagcctt gaagtacttg ctgacccaga aaggctcagg caatgccgtg     540
   28 gttattgtgg tgggtggagc tgctgaagct ctcttgtgcc gaccaggagc ctccactctc     600
   29 ttcctcaagc agcgtaaagg ttttgtgaag atggcactgc aaacaggggc ataccttgtc     660
   30 ccttcatatt cctttggtga gaacgaagtt ttcaatcagg agaccttccc tgagggcacg     720
   31 tggttaaggt tgttccaaaa aaccttccag gacacattca aaaaaatcct gggactaaat     780
   32 ttctgtacct tccatggccg gggcttcact cgcggatcct ggggcttcct gcctttcaat     840
   33 cggcccatta ccactgttgt tggggaaccc cttccaattc ccaggattaa gaggccaaac     900
   34 cagaagacag tagacaagta tcacgcactc tacatcagtg ccctgcgcaa gctctttgac     960
   35 caacacaaag ttgaatatgg cctccctgag acccaagagc tgacaattac ataa          1014
   37 <210> SEQ ID NO: 2
   38 <211> LENGTH: 337
   39 <212> TYPE: PRT
   40 <213> ORGANISM: Homo sapiens
   42 <400> SEQUENCE: 2
   43 Met Ala Phe Phe Ser Arg Leu Asn Leu Gln Glu Gly Leu Gln Thr Phe
   44 1               5                   10                  15
   45 Phe Val Leu Gln Trp Ile Pro Val Tyr Ile Phe Leu Gly Ala Ile Pro
   46             20                  25                  30
   47 Ile Leu Leu Ile Pro Tyr Phe Leu Leu Phe Ser Lys Phe Trp Pro Leu
   48         35                  40                  45
   49 Ala Val Leu Ser Leu Ala Trp Leu Thr Tyr Asp Trp Asn Thr His Ser
   50     50                  55                  60
   51 Gln Gly Gly Arg Arg Ser Ala Trp Val Arg Asn Trp Thr Leu Trp Lys
```

RAW SEQUENCE LISTING   DATE: 04/10/2006
PATENT APPLICATION: US/10/573,582   TIME: 15:25:39

Input Set : A:\PTO.DA.txt
Output Set: N:\CRF4\04102006\J573582.raw

```
52 65                       70                75                80
53 Tyr Phe Arg Asn Tyr Phe Pro Val Lys Leu Val Lys Thr His Asp Leu
54              85                90                95
55 Ser Pro Lys His Asn Tyr Ile Ile Ala Asn His Pro His Gly Ile Leu
56             100               105               110
57 Ser Phe Gly Val Phe Ile Asn Phe Ala Thr Glu Ala Thr Gly Ile Ala
58             115               120               125
59 Arg Ile Phe Pro Ser Ile Thr Pro Phe Val Gly Thr Leu Glu Arg Ile
60         130               135               140
61 Phe Trp Ile Pro Ile Val Arg Glu Tyr Val Met Ser Met Gly Val Cys
62 145               150               155               160
63 Pro Val Ser Ser Ser Ala Leu Lys Tyr Leu Leu Thr Gln Lys Gly Ser
64             165               170               175
65 Gly Asn Ala Val Val Ile Val Val Gly Gly Ala Ala Glu Ala Leu Leu
66             180               185               190
67 Cys Arg Pro Gly Ala Ser Thr Leu Phe Leu Lys Gln Arg Lys Gly Phe
68             195               200               205
69 Val Lys Met Ala Leu Gln Thr Gly Ala Tyr Leu Val Pro Ser Tyr Ser
70         210               215               220
71 Phe Gly Glu Asn Glu Val Phe Asn Gln Glu Thr Phe Pro Glu Gly Thr
72 225.              230               235               240
73 Trp Leu Arg Leu Phe Gln Lys Thr Phe Gln Asp Thr Phe Lys Lys Ile
74             245               250               255
75 Leu Gly Leu Asn Phe Cys Thr Phe His Gly Arg Gly Phe Thr Arg Gly
76             260               265               270
77 Ser Trp Gly Phe Leu Pro Phe Asn Arg Pro Ile Thr Thr Val Val Gly
78         275               280               285
79 Glu Pro Leu Pro Ile Pro Arg Ile Lys Arg Pro Asn Gln Lys Thr Val
80         290               295               300
81 Asp Lys Tyr His Ala Leu Tyr Ile Ser Ala Leu Arg Lys Leu Phe Asp
82 305               310               315               320
83 Gln His Lys Val Glu Tyr Gly Leu Pro Glu Thr Gln Glu Leu Thr Ile
84             325               330               335
85 Thr
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 22
90 <212> TYPE: DNA
91 <213> ORGANISM: artificial sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: forward primer
96 <400> SEQUENCE: 3
97 cttcctcaag cagcgtaaag gt                                      22
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 25
101 <212> TYPE: DNA
102 <213> ORGANISM: artificial sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: reverse primer
107 <400> SEQUENCE: 4
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RAW SEQUENCE LISTING　　　　　　　　DATE: 04/10/2006
PATENT APPLICATION:　**US/10/573,582**　　TIME: 15:25:39

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\04102006\J573582.raw**

```
108 aggaatatga agggacaagg tatgc                                    25
110 <210> SEQ ID NO: 5
111 <211> LENGTH: 24
112 <212> TYPE: DNA
113 <213> ORGANISM: artificial sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: probe
118 <400> SEQUENCE: 5
119 ttgtgaagat ggcactgcaa acag                                     24
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VERIFICATION SUMMARY   DATE: 04/10/2006
PATENT APPLICATION: **US/10/573,582**   TIME: 15:25:40

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\04102006\J573582.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing
(for reference only)

IFWP

RAW SEQUENCE LISTING   DATE: 04/06/2006
PATENT APPLICATION: **US/10/573,582**   TIME: 10:44:23

Input Set : **A:\984396_1.TXT**
Output Set: **N:\CRF4\04062006\J573582.raw**

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   3 <110> APPLICANT: Bayer AG, BHC
   5 <120> TITLE OF INVENTION: New acylglycerol acyltransferase-like protein MGAT-X2 and
uses thereof
   7 <130> FILE REFERENCE: Le A 36 895
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,582
C--> 9 <141> CURRENT FILING DATE: 2006-03-27
   9 <160> NUMBER OF SEQ ID NOS: 5
  11 <170> SOFTWARE: PatentIn version 3.1
```

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

```
  110 <210> SEQ ID NO: 5
  111 <211> LENGTH: 24
  112 <212> TYPE: DNA
  113 <213> ORGANISM: artificial sequence
  115 <220> FEATURE:
  116 <223> OTHER INFORMATION: probe
  118 <400> SEQUENCE: 5
  119 ttgtgaagat ggcactgcaa acag                                    24
W--> 126 Le A 36 895-Foreign countries
W--> 129 - 3 -
E--> 133 Le a 36 899
E--> 136 - 1 -
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deleted

VERIFICATION SUMMARY DATE: 04/06/2006
PATENT APPLICATION: **US/10/573,582** TIME: 10:44:24

Input Set : **A:\984396_1.TXT**
Output Set: **N:\CRF4\04062006\J573582.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:126 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:129 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:133 M:254 E: No. of Bases conflict, LENGTH:Input:899 Counted:27 SEQ:5
L:133 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:133 M:112 C: (48) String data converted to lower case,
M:254 Repeated in SeqNo=5
L:136 M:252 E: No. of Seq. differs, <211> LENGTH:Input:24 Found:27 SEQ:5